Beam Power Tube— Sharp-Cutoff Pentode

For Combined FM Detector and Audio-Frequency Output Amplifier Applications in TV Receivers

DUODECAR TYPE

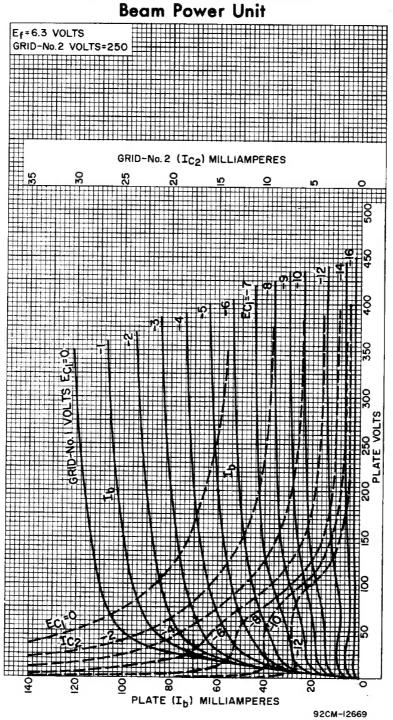
Electrical: Heater Characteristics and Ratings: Voltage (AC or DC)....... 6.3 ± 0.6 volts Current at heater volts = 6.3 0.9 amp Peak heater-cathode voltage (Each unit): Heater negative with respect to cathode. 200 max. volts Heater positive with respect to cathode. 200 max. volts Direct Interelectrode Capacitances (Approx.): Beam Power Unit: 0.26 pf 11 pf 12 pf Pentode Unit: 0.034 3.2 pf 6.5 pf 7.5 pf 0.24 pf P_B to P_P pf Mechanical: Operating Position....... 2.000" to 2.250" -Dimensional Outline (JEDEC 9-59). . . . See General Section Base. Small-Button Duodecar 12-Pin (JEDEC No.E12-70) Pin 1-Heater Pin 2 - Pentode Cathode Pin 3 - Pentode Grid No.1 Pin 4 - Pentode Grid No.3 G2_P Pin 5-Internal Shield Pin 6-Pentode Plate Pin 7-Pentode Grid No.2 io)esB Pin 8-Beam Power Grid No.1 Pin 9 - Beam Power Cathode, Beam Power Grid No.3 Pin 10 - Beam Power Grid No. 2 Pin 11 - Beam Power Plate Pin 12 - Heater a The dc component must not exceed 100 volts. **b** Without external shield. - Indicates a change.

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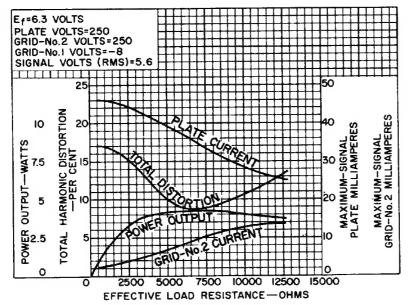
Characteristics, Class A Amplifier (Pentode Unit):	
Plate Supply Voltage	
Plate Resistance (Approx.)	~
PENTODE UNIT - FM SOUND DETECTOR	
Maximum Ratings, Design-Maximum Values:	
Plate Voltage	~
Grid-No.1 (Control-Grid) Voltage: Positive-bias value 0 max, volts	
Plate Dissipation 1.7 max. watts Grid-No.2 Input: For grid-No.2 voltages up to 165 volts 1.1 max. watts	
For grid—No.2 voltages between 165 and 330 volts See <i>Grid—No.2 Input Rating Chart</i> at front of Receiving Tube Section	
BEAM POWER UNIT - AMPLIFIER - Class A	
Maximum Ratings, Design-Maximum Values:	
Plate Voltage	
Typical Operation and Characteristics:	las -
Plate Voltage	
Zero-Signal Grid-No.2 Current 2.5 ma MaxSignal Grid-No.2 Current 7 ma Plate Resistance (Approx.) 0.1 megohm Transconductance 6500 μmhos Load Resistance 5000 ohms Total Harmonic Distortion 10 per cent MaxSignal Power Output 4.2 watts	-
Maximum Circuit Values:	_
Grid-No.1-Circuit Resistance: For fixed-bias operation 0.25 max. megohm For cathode-bias operation 0.5 max. megohm	



AVERAGE CHARACTERISTICS Beam Power Unit

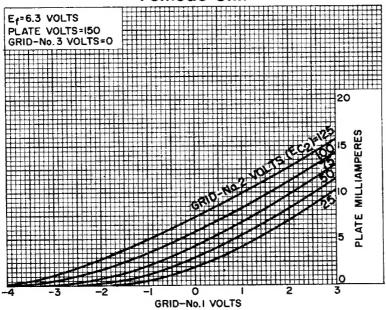


OPERATION CHARACTERISTICS Begm Power Unit



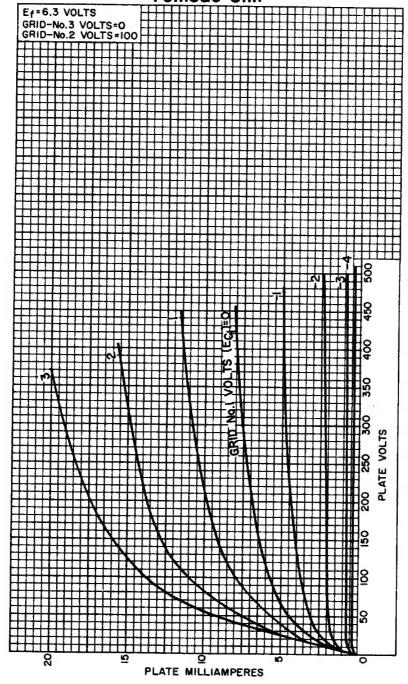
9205-12663

AVERAGE CHARACTERISTICS Pentode Unit



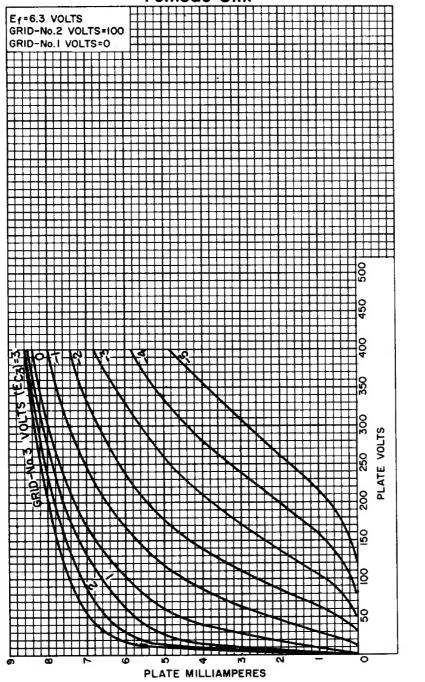
92CS-12670

AVERAGE PLATE CHARACTERISTICS Pentode Unit



92CM-12671

AVERAGE PLATE CHARACTERISTICS Pentode Unit



92CM-12672